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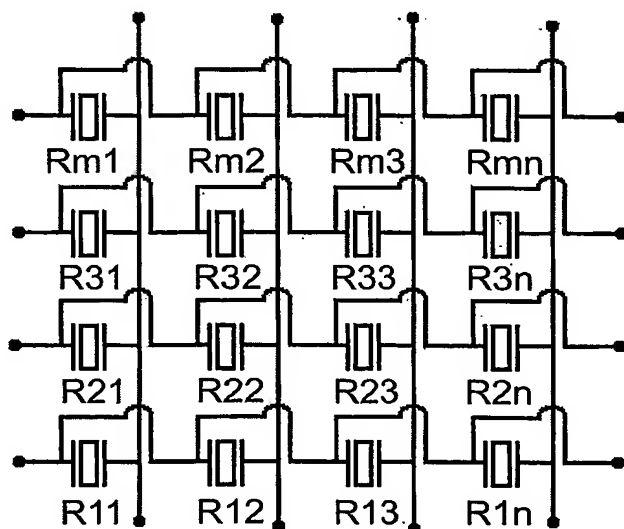
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(54) Title: BULK ACOUSTIC WAVE SENSOR



(57) Abstract: The invention describes a sensor comprising a substrate 1 and at least one resonator, said resonator is comprised of an acoustic reflector 2, a piezoelectric layer 5, a first and a second electrode 3, 4 placed on the same side of the piezoelectric layer 5, and a sensing layer 6. The sensing layer reacts with a chemical or biological agent by absorption, adsorption, desorption or chemical reaction. As a result the individual frequency of a resonator changes and conclusions about the agent can be drawn. Such sensor is very sensitive to an agent being sensed, especially when used in liquids.

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